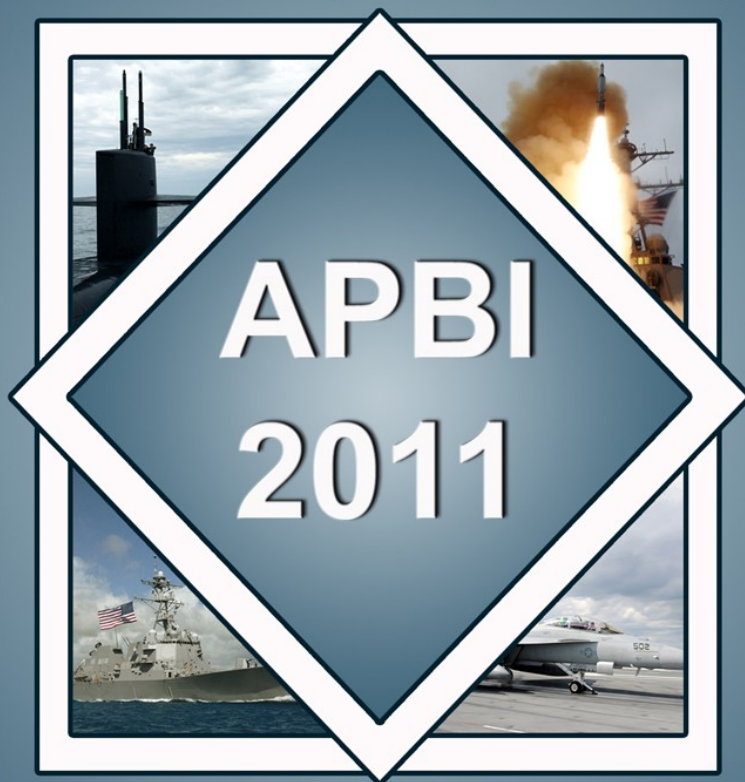




Naval Surface Warfare Center Crane Division

Advance Planning Briefings for Industry



"Warfighter Success - Supporting the Warfighter"

Electronic Warfare Information Operations

29 MAR 2011

Val

O'Brien



Electronic Warfare Information Operations

Mission

“Enhancing critical national security capabilities by providing technical expertise and transitioning essential technologies utilizing the Electromagnetic Spectrum which are vital to both defensive and offensive operations in the Air, Ground, Maritime, and Space Domains”

Vision

“Provide national thought leadership for Department of Defense and other agencies to control the Electromagnetic Spectrum by creating innovative Electronic Warfare / Information Operations capabilities to satisfy urgent national security requirements.”

Strategic Themes

- **National Leadership**
- **Advocacy of the Electronic Warfare / Information Operations Product Line**
- **Total Life Cycle Support**
- **Customer Base Broadening**
- **Technology Transition**

Five Critical Areas

- **Electronic Warfare / Information Operations Leadership**
- **Spectrum Management / Cyber Warfare**
- **Irregular Warfare**
- **Sensor Integration**
- **Technology Transition**



Electronic Warfare / Information Operations Leadership

GOAL

- Become a nationally recognized leader in Electronic Warfare / Information Operations

RATIONALE

- Address the STRATCOM JEWIC #1 CBA gap

OBJECTIVES

- Provide US Navy Center of Excellence leadership for the Electronic Warfare technical community
- Provide Electronic Attack, Electronic Warfare Support and EP sensor expertise to meet the increasing demand for Spectrum Mgmt, Cyber Warfare and Irregular Warfare
- Develop multi-spectral, multi-domain solutions to support Department of Defense, Other Government Agency and coalition partner “joint” efforts



Spectrum Management / Cyber Warfare

GOAL

- Provide Electronic Warfare / Information Operations expertise for the electromagnetic spectrum

RATIONALE

- Cyber operations are more dependent on wireless infrastructures & will become more vulnerable to Electronic Warfare exploitation

OBJECTIVES

- Provide Electronic Warfare expertise to new and realigned organizations responsible for the Electromagnetic Spectrum
- Apply Electronic Warfare capabilities to support cyber, knowledge & Information's Technology, communications & networks, & tactical information systems
- Expand cyber space computer network ops (CNO) and critical infrastructure protection capabilities
- Provide integrated Electronic Warfare / Information Operations, Irregular Warfare & cyber capabilities to enable non-kinetic solutions for national security issues

Irregular Warfare

GOAL

- Support the shift to address Irregular Warfare, catastrophic and disruptive challenges while sustaining traditional capabilities

RATIONALE

- There is a focus on intelligence, surveillance and reconnaissance (ISR), anti-terrorism/force protection (AT/FP), and cyber in support of extended customer set

OBJECTIVES

- Provide Signals Intelligence (SIGINT) expertise to the Irregular Warfare and other communities to meet national security challenges
- Integrate multiple source data into a common operating picture (COP) to identify threats and gaps
- Increase expeditionary expertise to ground and littoral program offices expanding Electronic Warfare, cyber & ISR capabilities

Sensor Integration

GOAL

- Develop integrated sensors capabilities

RATIONALE

- There is increased emphasis on multi-function, multi-band, multi-beam wide-band arrays capable of Electronic Warfare, communication and radar functions

OBJECTIVES

- Integrate Radio Frequency/Electro Optic/Infra-Red/Infra-red Counter Measures / Electronic Warfare Sensors in a robust, Operational Assessment framework
- Develop expanded Electronic Protect capabilities to maintain friendly use of the spectrum to support sensors & weapons systems
- Enhance Electronic Attack and Electronic Warfare Support capabilities in new areas of the spectrum to deny enemy use of the spectrum
- Integrate sensor capabilities into the Unmanned Systems and Electronic

Technology Transition

GOAL

- Increase S&T capabilities to end users

RATIONALE

- There is focus on acceleration of Fleet Science & Technology capabilities

OBJECTIVES

- Continue development of the Naval Electronic Warfare Technology Integration Center (NEWTIC) data analysis tool to identify and analyze threats and countermeasures
- Continue to conduct NEWTIC technology summits to identify potential countermeasures to threats and gaps
- Establish technology transition agreements and/or MoAs with service labs, national Labs, and acquisition PMs
- Collaborate with industry & academia to address technology shortfalls

EW/IO Strategic Summary

- **NSWC Crane is the Department of Defense's largest Electronic Warfare footprint that is multi-spectral/multi-domain**
 - We have capabilities and credentials in the five critical areas:
 - Electronic Warfare / Information Operations Leadership
 - Spectrum Management / Cyber Warfare
 - Irregular Warfare
 - Sensor Integration
 - Technology Transition
 - We need partnerships between government, industry and academia to meet future demands

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A large blue diamond shape with a white border is centered on the slide. Inside the diamond, the text "APBI 2011" is written in white, bold, sans-serif font. The diamond is superimposed over a square frame containing four images: a submarine on the left, a missile launch on the top right, a ship on the bottom left, and an aircraft on the bottom right.

**APBI
2011**

"Warfighter Success - Supporting the Warfighter"

